

# WA State Model Ordinance

12/09/2019 Version

## Evaluation Sheet

Locality: Snoqualmie

Reviewer's Name: Roxanne Reale-Pilkenton

Review Date: 28 April 2020

Criteria & Model Ordinance Reference	Markups & Federal Regulation Reference
<b>Section 1.0 - Statutory Authorization, Findings of Fact, Purpose, and Objectives</b>	<i>(Not mandatory to adopt section 1.0)</i>
<p><b>1.1 Statutory Authorization</b></p> <p>The Legislature of the State of Washington has delegated the responsibility to local communities to adopt floodplain management regulations designed to promote the public health, safety, and general welfare of its citizenry. Therefore, the <b>{Decision Making Body}</b> of <b>{Community Name}</b>, does ordain as follows:</p>	<p><b>Not mandatory.</b></p>
<p><b>1.2 Findings of Fact</b></p> <p>The flood hazard areas of <b>{Community Name}</b> are subject to periodic inundation, which may result in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety, and general welfare.</p> <p>These flood losses may be caused by the cumulative effect of obstructions in areas of special flood hazards that increase flood heights and velocities, and when inadvertently anchored, damage uses in other areas. Uses that are inadequately flood proofed, elevated, or otherwise protected from flood damage also contribute to the flood loss.</p>	<p><b>15.12.010 (A)</b></p> <p><b>15.12.010 (B) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></p>

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<p><b>1.3 Statement of Purpose</b></p> <p>It is the purpose of this ordinance to promote the public health, safety, and general welfare; reduce the annual cost of flood insurance; and minimize public and private losses due to flood conditions in specific areas by provisions designed to:</p> <ol style="list-style-type: none"> <li>1) Protect human life and health;</li> <li>2) Minimize expenditure of public money for costly flood control projects;</li> <li>3) Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;</li> <li>4) Minimize prolonged business interruptions;</li> <li>5) Minimize damage to public facilities and utilities, such as water and gas mains; electric, telephone, and sewer lines; and streets and bridges located in flood hazard areas;</li> <li>6) Help maintain a stable tax base by providing for the sound use and development of flood hazard areas so as to minimize blight areas caused by flooding;</li> <li>7) Notify potential buyers that the property is in a Special Flood Hazard Area;</li> <li>8) Notify those who occupy flood hazard areas that they assume responsibility for their actions; and</li> <li>9) Participate in and maintain eligibility for flood insurance and disaster relief.</li> </ol>	<p><b>15.12.020(A)</b></p> <ol style="list-style-type: none"> <li>1) <b>15.12.020(A)(1)</b></li> <li>2) <b>15.12.020(A)(2) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> <li>3) <b>15.12.020(A)(3)</b></li> <li>4) <b>15.12.020(A)(4)</b></li> <li>5) <b>15.12.020(A)(5)</b></li> <li>6) <b>15.12.020(A)(6) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> <li>7) <b>15.12.020(A)(7) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> <li>8) <b>15.12.020(A)(8) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> <li>9) <b>15.12.020(A)(9) – FEMA suggests* adding this to the Snoqualmie Municipal Code.</b></li> </ol>
<p><b>1.4 Methods of Reducing Flood Losses</b></p> <p>In order to accomplish its purposes, this ordinance includes methods and provisions for:</p> <ol style="list-style-type: none"> <li>1) Restricting or prohibiting development that is dangerous to health, safety, and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities,</li> <li>2) Requiring that development vulnerable to floods be protected against flood damage at the time of initial construction;</li> <li>3) Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel floodwaters;</li> <li>4) Controlling filling, grading, dredging, and other development, which may increase flood damage; and</li> <li>5) Preventing or regulating the construction of flood barriers that unnaturally divert floodwaters or may increase flood hazards in other areas.</li> </ol>	<p><b>15.12.030 - Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></p> <ol style="list-style-type: none"> <li>1) <b>15.12.030(A) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> <li>2) <b>15.12.030(B) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> <li>3) <b>15.12.030(C) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> <li>4) <b>15.12.030(D) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> <li>5) <b>15.12.030(E) – Please see FEMA’s suggested* changes in the Snoqualmie Municipal Code.</b></li> </ol>

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<p><b>Section 2.0 – Definitions</b></p>	<p>44 CFR 59.1 (Not mandatory to adopt all definitions as shown) * Terms with one asterisk trigger a specific minimum requirement and must be adopted.</p>
<p><b>*Alteration of watercourse:</b> Any action that will change the location of the channel occupied by water within the banks of any portion of a riverine waterbody.</p> <p><b>Appeal:</b> A request for a review of the interpretation of any provision of this ordinance or a request for a variance.</p> <p><b>*Area of shallow flooding:</b> A designated zone AO, AH, AR/AO or AR/AH (or VO) on a community’s Flood Insurance Rate Map (FIRM) with a one percent or greater annual chance of flooding to an average depth of one to three feet where a clearly defined channel does not exist, where the path of flooding is unpredictable, and where velocity flow may be evident. Such flooding is characterized by ponding or sheet flow. Also referred to as the sheet flow area.</p> <p><b>*Area of special flood hazard:</b> The land in the floodplain within a community subject to a 1 percent or greater chance of flooding in any given year. It is shown on the Flood Insurance Rate Map (FIRM) as zone A, AO, AH, A1-30, AE, A99, AR (V, VO, V1-30, VE). “Special flood hazard area” is synonymous in meaning with the phrase “area of special flood hazard”.</p> <p><b>ASCE 24:</b> The most recently published version of ASCE 24, Flood Resistant Design and Construction, published by the American Society of Civil Engineers.</p> <p><b>*Base flood:</b> The flood having a 1% chance of being equaled or exceeded in any given year (also referred to as the “100-year flood”).</p> <p><b>*Base Flood Elevation (BFE):</b> The elevation to which floodwater is anticipated to rise during the base flood.</p> <p><b>*Basement:</b> Any area of the building having its floor sub-grade (below ground level) on all sides.</p> <p><b>Building:</b> See "Structure."</p> <p><b>Building Code:</b> The currently effective versions of the International Building Code and the</p>	<p>Please add this definition, verbatim to Snoqualmie Municipal Code.</p> <p>15.12.040(A) – This definition is not mandatory but if used please use this definition verbatim.</p> <p>15.12.040(B) - Please know that Snoqualmie does not have AO or AH zones so this definition if not required. If to be left in the ordinance, please use this definition verbatim.</p> <p>15.12.040(C) – Please use this definition verbatim.</p> <p>15.12.040(D) – Please use this definition verbatim.</p> <p>Please add this definition, verbatim to Snoqualmie Municipal Code.</p> <p>15.12.040(E) – Please use this definition verbatim. Please note that if Snoqualmie wishes to give crawlspace construction allowance it needs to be done outside of the definition section.</p>

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<p>International Residential Code adopted by the State of Washington Building Code Council.</p> <p><b>Breakaway wall:</b> A wall that is not part of the structural support of the building and is intended through its design and construction to collapse under specific lateral loading forces, without causing damage to the elevated portion of the building or supporting foundation system.</p> <p><b>Coastal High Hazard Area:</b> An area of special flood hazard extending from offshore to the inland limit of a primary frontal dune along an open coast and any other area subject to high velocity wave action from storms or seismic sources. The area is designated on the FIRM as zone V1-30, VE or V.</p> <p><b>Critical Facility:</b> A facility for which even a slight chance of flooding might be too great. Critical facilities include (but are not limited to) schools, nursing homes, hospitals, police, fire and emergency response installations, and installations which produce, use, or store hazardous materials or hazardous waste.</p> <p><b>*Development:</b> Any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials located within the area of special flood hazard.</p> <p><b>Elevation Certificate:</b> An administrative tool of the National Flood Insurance Program (NFIP) that can be used to provide elevation information, to determine the proper insurance premium rate, and to support a request for a Letter of Map Amendment (LOMA) or Letter of Map Revision based on fill (LOMR-F).</p> <p><b>Elevated Building:</b> For insurance purposes, a non-basement building that has its lowest elevated floor raised above ground level by foundation walls, shear walls, post, piers, pilings, or columns.</p> <p><b>Essential Facility:</b> This term has the same meaning as “Essential Facility” defined in ASCE 24. Table 1-1 in ASCE 24-14 further identifies building occupancies that are essential facilities.</p> <p><b>Existing Manufactured Home Park or Subdivision:</b> A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum,</p>	<p>15.12.040(F)</p> <p>15.12.040(G)</p>
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the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed before the effective date of the floodplain management regulations adopted by the community.

**Expansion to an Existing Manufactured Home Park or Subdivision:** The preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).

**Farmhouse:** A single-family dwelling located on a farm site where resulting agricultural products are not produced for the primary consumption or use by the occupants and the farm owner.

**\*Flood or Flooding:**

- 1) A general and temporary condition of partial or complete inundation of normally dry land areas from:
  - a) The overflow of inland or tidal waters.
  - b) The unusual and rapid accumulation or runoff of surface waters from any source.
  - c) Mudslides (i.e., mudflows) which are proximately caused by flooding as defined in paragraph (1)(b) of this definition and are akin to a river of liquid and flowing mud on the surfaces of normally dry land areas, as when earth is carried by a current of water and deposited along the path of the current.
  
- 2) The collapse or subsidence of land along the shore of a lake or other body of water as a result of erosion or undermining caused by waves or currents of water exceeding anticipated cyclical levels or suddenly caused by an unusually high water level in a natural body of water, accompanied by a severe storm, or by an unanticipated force of nature, such as flash flood or an abnormal tidal surge, or by some similarly unusual and unforeseeable event which results in flooding as defined in paragraph (1)(a) of this definition.

**\*Flood elevation study:** An examination, evaluation and determination of flood hazards and, if appropriate, corresponding water surface elevations, or an examination, evaluation and determination of mudslide (i.e., mudflow) and/or flood-related erosion hazards. Also known as a Flood Insurance Study (FIS).

**15.12.040(l) – Please use this definition verbatim.**

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<p><b>*Flood Insurance Rate Map (FIRM):</b> The official map of a community, on which the Federal Insurance Administrator has delineated both the special hazard areas and the risk premium zones applicable to the community. A FIRM that has been made available digitally is called a Digital Flood Insurance Rate Map (DFIRM).</p>	<p><b>15.12.040(J) – Please use this definition verbatim.</b></p>
<p><b>*Floodplain or flood-prone area:</b> Any land area susceptible to being inundated by water from any source. See "Flood or flooding."</p>	<p><b>15.12.040(L) – Please use this definition verbatim.</b></p>
<p><b>*Floodplain administrator:</b> The community official designated by title to administer and enforce the floodplain management regulations.</p>	<p><b>Please add this definition, verbatim to Snoqualmie Municipal Code.</b></p>
<p><b>Floodplain management regulations:</b> Zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances (such as floodplain ordinance, grading ordinance and erosion control ordinance) and other application of police power. The term describes such state or local regulations, in any combination thereof, which provide standards for the purpose of flood damage prevention and reduction.</p>	
<p><b>*Flood proofing:</b> Any combination of structural and nonstructural additions, changes, or adjustments to structures which reduce or eliminate risk of flood damage to real estate or improved real property, water and sanitary facilities, structures, and their contents. Flood proofed structures are those that have the structural integrity and design to be impervious to floodwater below the Base Flood Elevation.</p>	<p><b>15.12.040(M) – Please use this definition verbatim.</b></p>
<p><b>*Floodway:</b> The channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height. Also referred to as "Regulatory Floodway."</p>	<p><b>15.12.040(N) – Please use this definition verbatim.</b></p>
<p><b>*Functionally dependent use:</b> A use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. The term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities, and does not include long-term storage or related manufacturing facilities.</p>	<p><b>Please add this definition, verbatim to Snoqualmie Municipal Code.</b></p>
<p><b>*Highest adjacent grade:</b> The highest natural elevation of the ground surface prior to construction next to the proposed walls of a structure.</p>	<p><b>Please add this definition, verbatim to Snoqualmie Municipal Code.</b></p>

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<p><b>*Historic structure:</b> Any structure that is:</p> <ol style="list-style-type: none"> <li>1) Listed individually in the National Register of Historic Places (a listing maintained by the Department of Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;</li> <li>2) Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district;</li> <li>3) Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of Interior; or</li> <li>4) Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified either: <ol style="list-style-type: none"> <li>a) By an approved state program as determined by the Secretary of the Interior, or</li> <li>b) Directly by the Secretary of the Interior in states without approved programs.</li> </ol> </li> </ol> <p><b>*Lowest Floor:</b> The lowest floor of the lowest enclosed area (including basement). An unfinished or flood resistant enclosure, usable solely for parking of vehicles, building access, or storage in an area other than a basement area, is not considered a building's lowest floor, provided that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this ordinance (i.e. provided there are adequate flood ventilation openings).</p> <p><b>Manufactured Home:</b> A structure, transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when attached to the required utilities. The term "manufactured home" does not include a "recreational vehicle."</p> <p><b>Manufactured Home Park or Subdivision:</b> A parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.</p>	<p><b>Please add this definition, verbatim to Snoqualmie Municipal Code.</b></p> <p><b>15.12.040(P) – Please use this definition verbatim.</b></p> <p><b>15.12.040(Q) – This definition is not mandatory but if used please use this definition verbatim. Please note that you may wish to state that this definition is for the Flood Hazard Regulation only.</b></p> <p><b>15.12.040(R) – Please use this definition verbatim.</b></p>
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<p><b>*Mean Sea Level:</b> For purposes of the National Flood Insurance Program, the vertical datum to which Base Flood Elevations shown on a community's Flood Insurance Rate Map are referenced.</p> <p><b>*New construction:</b> For the purposes of determining insurance rates, structures for which the "start of construction" commenced on or after the effective date of an initial Flood Insurance Rate Map or after December 31, 1974, whichever is later, and includes any subsequent improvements to such structures. For floodplain management purposes, "new construction" means structures for which the "start of construction" commenced on or after the effective date of a floodplain management regulation adopted by a community and includes any subsequent improvements to such structures.</p> <p><b>New Manufactured Home Park or Subdivision:</b> A manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed on or after the effective date of adopted floodplain management regulations adopted by the community.</p> <p><b>One-hundred-year flood or 100-year flood:</b> See "Base flood."</p> <p><b>Reasonably Safe from Flooding:</b> Development that is designed and built to be safe from flooding based on consideration of current flood elevation studies, historical data, high water marks and other reliable data known to the community. In unnumbered A zones where flood elevation information is not available and cannot be obtained by practicable means, reasonably safe from flooding means that the lowest floor is at least two feet above the Highest Adjacent Grade.</p> <p><b>*Recreational Vehicle:</b> A vehicle,</p> <ol style="list-style-type: none"> <li>1) Built on a single chassis;</li> <li>2) 400 square feet or less when measured at the largest horizontal projection;</li> <li>3) Designed to be self-propelled or permanently towable by a light duty truck; and</li> <li>4) Designed primarily not for use as a permanent dwelling but as temporary living quarters for recreational, camping, travel, or seasonal use.</li> </ol> <p><b>*Start of construction:</b> Includes substantial improvement and means the date the building</p>	<p><b>Please add this definition, verbatim to Snoqualmie Municipal Code.</b></p> <p><b>15.12.040(T) – Please use this definition verbatim.</b></p> <p><b>15.12.040(V)</b></p> <p><b>15.12.040(W) – Please use this definition verbatim.</b></p>
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permit was issued, provided the actual start of construction, repair, reconstruction, rehabilitation, addition, placement, or other improvement was within 180 days from the date of the permit. The actual start means either the first placement of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading, and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.

**\*Structure:** For floodplain management purposes, a walled and roofed building, including a gas or liquid storage tank, that is principally above ground, as well as a manufactured home.

**\*Substantial Damage:** Damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.

**\*Substantial improvement:** Any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the "start of construction" of the improvement. This term includes structures which have incurred "substantial damage," regardless of the actual repair work performed. The term does not, however, include either:

- 1) Any project for improvement of a structure to correct previously identified existing violations of state or local health, sanitary, or safety code specifications that have been identified by the local code enforcement official and that are the minimum necessary to assure safe living conditions; or
- 2) Any alteration of a "historic structure," provided that the alteration will not preclude the structure's continued designation as a "historic

**15.12.040(X) – Please use this definition verbatim.**

**15.12.040(Y)**

**15.12.040(Z) – Please use this definition verbatim.**

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<p>structure.”</p> <p><b>*Variance:</b> A grant of relief by a community from the terms of a floodplain management regulation.</p> <p><b>Water surface elevation:</b> The height, in relation to the vertical datum utilized in the applicable flood insurance study of floods of various magnitudes and frequencies in the floodplains of coastal or riverine areas.</p> <p><b>Water Dependent:</b> A structure for commerce or industry that cannot exist in any other location and is dependent on the water by reason of the intrinsic nature of its operations.</p>	<p><b>15.12.040(AA) – Please use this definition verbatim.</b></p>
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<b>Section 3.0 – General Provisions</b>	
<p><b>3.1 Lands to Which This Ordinance Applies</b></p> <p>This ordinance shall apply to all special flood hazard areas within the boundaries of <b>{Community Name}</b>.</p>	<p style="text-align: center;"><i>(44 CFR 59.22(a))</i></p> <p><b>15.12.050(A) – Please see markups on Snoqualmie Municipal Code.</b></p>
<p><b>3.2 Basis for Establishing the Areas of Special Flood Hazard</b></p> <p>The special flood hazard areas identified by the Federal Insurance Administrator in a scientific and engineering report entitled “The Flood Insurance Study (FIS) for <b>{exact title of study}</b>” dated <b>{date}</b>, and any revisions thereto, with accompanying Flood Insurance Rate Maps (FIRMs) dated <b>{date}</b>, and any revisions thereto, are hereby adopted by reference and declared to be a part of this ordinance. The FIS and the FIRM are on file at <b>{community address}</b>.</p> <p>The best available information for flood hazard area identification as outlined in Section 4.3-2 shall be the basis for regulation until a new FIRM is issued that incorporates data utilized under Section 4.3-2.</p>	<p style="text-align: center;"><i>Mandatory (44 CFR 60.3 (preamble) and 44 CFR 60.2(h)). *In some communities, the phrase “and any revisions thereto” is not considered legally binding and should not be adopted.</i></p> <p><b>15.12.050(B) – Please see markups on Snoqualmie Municipal Code.</b></p>
<p><b>3.3 Compliance</b></p> <p>All development within special flood hazard areas is subject to the terms of this ordinance and other applicable regulations.</p>	<p style="text-align: center;"><i>Mandatory (44 CFR 60.2(h))</i></p> <p><b>15.12.060 – Please add this language to Snoqualmie Municipal Code or provide location where provision currently exists.</b></p>
<p><b>3.4 Penalties For Noncompliance</b></p> <p>No structure or land shall hereafter be constructed, located, extended, converted, or altered without full compliance with the terms of this ordinance and</p>	<p style="text-align: center;"><i>Mandatory (44 CFR 60.2(h))</i></p> <p><b>15.12.060(A-D) – Please see markups on the Snoqualmie Municipal Code.</b></p>

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<p>other applicable regulations. Violations of the provisions of this ordinance by failure to comply with any of its requirements (including violations of conditions and safeguards established in connection with conditions), shall constitute a misdemeanor. Any person who violates this ordinance or fails to comply with any of its requirements shall upon conviction thereof be fined not more than _____ or imprisoned for not more than ___ days, or both, for each violation, and in addition shall pay all costs and expenses involved in the case. Nothing herein contained shall prevent the _____ from taking such other lawful action as is necessary to prevent or remedy any violation.</p>	
<p><b>3.5 Abrogation and Greater Restrictions</b></p> <p>This ordinance is not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this ordinance and another ordinance, easement, covenant, or deed restriction conflict or overlap, whichever imposes the more stringent restrictions shall prevail.</p>	<p><b>15.12.070</b></p>
<p><b>3.6 Interpretation</b></p> <p>In the interpretation and application of this ordinance, all provisions shall be:</p> <ol style="list-style-type: none"> <li>1) Considered as minimum requirements;</li> <li>2) Liberally construed in favor of the governing body; and,</li> <li>3) Deemed neither to limit nor repeal any other powers granted under state statutes.</li> </ol>	<p><i>Recommended (Not mandatory)</i></p> <p><b>15.12.080 – While not mandatory FEMA suggests if using ‘Interpretation’ in the code the model ordinance language is used.</b></p>
<p><b>3.7 Warning and Disclaimer of Liability</b></p> <p>The degree of flood protection required by this ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger floods can and will occur on rare occasions. Flood heights may be increased by man-made or natural causes. This ordinance does not imply that land outside the areas of special flood hazards or uses permitted within such areas will be free from flooding or flood damages. This ordinance shall not create liability on the part of <b>{Community Name}</b>, any officer or employee thereof, or the Federal Insurance Administration, for any flood damages that result from reliance on this ordinance or any administrative decision lawfully made hereunder.</p>	<p><i>Recommended (Not mandatory)</i></p> <p><b>15.12.090 – While not mandatory FEMA suggests if using ‘Interpretation’ in the code the model ordinance language is used.</b></p>

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<p><b>3.8 Severability</b></p> <p>This ordinance and the various parts thereof are hereby declared to be severable. Should any Section of this ordinance be declared by the courts to be unconstitutional or invalid, such decision shall not affect the validity of the ordinance as a whole, or any portion thereof other than the Section so declared to be unconstitutional or invalid.</p>	<p style="text-align: center;"><i>Mandatory (44 CFR 60.1(b))</i>  <i>The severability cause may be included in the adopting ordinance and left uncodified.</i></p> <p><b>Please add this language to Snoqualmie Municipal Code or provide location where provision currently exists.</b></p>
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<p><b>Section 4.0 – Administration</b></p>	
<p><b>4.1 Establishment of Development Permit</b></p> <p><b>4.1-1 Development Permit Required</b></p> <p>A development permit shall be obtained before construction or development begins within any area of special flood hazard established in Section 3.2. The permit shall be for all structures including manufactured homes, as set forth in the “Definitions,” and for all development including fill and other activities, also as set forth in the “Definitions.”</p>	<p style="text-align: center;"><i>Mandatory (44 CFR 60.3(b)(1))</i></p> <p><b>15.12.110(A)</b></p>
<p><b>4.1-2 Application for Development Permit</b></p> <p>Application for a development permit shall be made on forms furnished by the Floodplain Administrator and may include, but not be limited to, plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, fill, storage of materials, drainage facilities, and the location of the foregoing. Specifically, the following information is required:</p> <ol style="list-style-type: none"> <li>1) Elevation in relation to mean sea level, of the lowest floor (including basement) of all structures recorded on a current elevation certificate with Section B completed by the Floodplain Administrator.</li> <li>2) Elevation in relation to mean sea level to which any structure has been flood proofed;</li> <li>3) Where a structure is to be flood proofed, certification by a registered professional engineer or architect that the flood proofing methods for any nonresidential structure meet flood proofing criteria in Section 5.2-2;</li> <li>4) Description of the extent to which a watercourse will be altered or relocated as a result of proposed development;</li> <li>5) Where a structure is proposed in a V,V1-30, or VE zone, a V-zone design certificate;</li> </ol>	<p><i>Note: The format of Section 4.1-2 is not mandatory but the elevation information in subsection 1 and information in subsections 2 through 7 is mandatory. Elevation Certificates are not mandatory outside of Community Rating System communities but highly recommended.</i></p> <ol style="list-style-type: none"> <li>1) <b>15.12.110(B)(7) – FEMA suggests adding this elevation certificate (EC) language requirement if Snoqualmie uses ECs.</b></li> <li>2) <b>15.12.110(B)(8)</b></li> <li>3) <b>15.12.110(B)(9) – Please add applicable code citation.</b></li> <li>4) <b>15.12.110(B)(10)</b></li> <li>5) <b>Not required as Snoqualmie does not have Coastal zones.</b></li> <li>6) <b>Add this to the Snoqualmie Municipal Code.</b></li> <li>7) <b>Add this to the Snoqualmie Municipal Code.</b></li> </ol>

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<p>6) Where development is proposed in a floodway, an engineering analysis indicating no rise of the Base Flood Elevation; and</p> <p>7) Any other such information that may be reasonably required by the Floodplain Administrator in order to review the application.</p>	
<p><b>4.2 Designation of the Floodplain Administrator</b></p> <p>The {job title of the appropriate administrative official} is hereby appointed to administer, implement, and enforce this ordinance by granting or denying development permits in accordance with its provisions. The Floodplain Administrator may delegate authority to implement these provisions.</p>	<p><i>Mandatory (44 CFR 59.22(b)(1))</i></p> <p><b>15.12.100 – Please see markups on the Snoqualmie Municipal Code.</b></p>
<p><b>4.3 Duties &amp; Responsibilities of the Floodplain Administrator</b></p> <p>Duties of the (<i>Floodplain Administrator</i>) shall include, but not be limited to:</p>	<p><i>Mandatory, (44 CFR 60.1 (b))</i></p> <p><b>15.12.120</b></p>
<p><b>4.3-1 Permit Review</b></p> <p>Review all development permits to determine that:</p> <ol style="list-style-type: none"> <li>1) The permit requirements of this ordinance have been satisfied;</li> <li>2) All other required state and federal permits have been obtained;</li> <li>3) The site is reasonably safe from flooding;</li> <li>4) The proposed development is not located in the floodway. If located in the floodway, assure the encroachment provisions of Section 5.4-1 are met.</li> <li>5) Notify FEMA when annexations occur in the Special Flood Hazard Area.</li> </ol>	<p><i>Mandatory, (44 CFR 60.1 (b))</i></p> <p><b>15.12.120 – Please see markups on the Snoqualmie Municipal Code.</b></p>
<p><b>4.3-2 Use of Other Base Flood Data (In A and V Zones)</b></p> <p>When base flood elevation data has not been provided (in A or V zones) in accordance with Section 3.2, BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD, the Floodplain Administrator shall obtain, review, and reasonably utilize any base flood elevation and floodway data available from a federal, state, or other source, in order to administer Sections 5.2, SPECIFIC STANDARDS, and 5.4 FLOODWAYS.</p>	<p><i>Mandatory (44 CFR 60.3(b)(4))</i></p> <p><b>15.12.120(B)</b></p>
<p><b>4.3-3 Information to be Obtained and Maintained</b></p> <ol style="list-style-type: none"> <li>1) Where base flood elevation data is provided through the FIS, FIRM, or required as in</li> </ol>	<p><i>Required, verbatim (44 CFR 60.3 (b)(5)) (44 CFR 60.3(b)(5)(i) and (iii)) (44 CFR 60.3(e)(2)) (44 CFR 60.3(b)(5)(i) and (iii))</i></p>

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<p>Section 4.3-2, obtain and maintain a record of the actual (as-built) elevation (in relation to mean sea level) of the lowest floor (including basement) of all new or substantially improved structures, and whether or not the structure contains a basement.</p> <ol style="list-style-type: none"> <li>2) Documentation of the elevation of the bottom of the lowest horizontal structural member in V or VE zones.</li> <li>3) For all new or substantially improved flood proofed nonresidential structures where base flood elevation data is provided through the FIS, FIRM, or as required in Section 4.3-2: <ol style="list-style-type: none"> <li>a) Obtain and maintain a record of the elevation (in relation to mean sea level) to which the structure was flood proofed.</li> <li>b) Maintain the flood proofing certifications required in Section 4.1-2(3).</li> </ol> </li> <li>4) Certification required by Section 5.4.1 {or the numbering system used by the community} (floodway encroachments).</li> <li>5) Records of all variance actions, including justification for their issuance.</li> <li>6) Improvement and damage calculations.</li> <li>7) Maintain for public inspection all records pertaining to the provisions of this ordinance.</li> </ol>	<p>(44 CFR 60.3(b)(5)(ii))  (44 CFR 60.3(b)(5)(iii))  (44 CFR 60.6(a)(6))  (44 CFR 60.3(b)(5)(iii))</p> <ol style="list-style-type: none"> <li>1) <b>15.12.120(C)(1) – Please see markups on Snoqualmie Municipal Code.</b></li> <li>2) <b>Not required for City of Snoqualmie.</b></li> <li>3) <b>15.12.120(C)(2) – Please see markups on Snoqualmie Municipal Code.</b></li> <li>4) <b>Add this to the Snoqualmie Municipal Code.</b></li> <li>5) <b>Add this to the Snoqualmie Municipal Code.</b></li> <li>6) <b>Add this to the Snoqualmie Municipal Code.</b></li> <li>7) <b>Add this to the Snoqualmie Municipal Code.</b></li> </ol>
<p><b>4.3-4 Notification to Other Entities</b></p> <p>Whenever a watercourse is to be altered or relocated:</p> <ol style="list-style-type: none"> <li>1) Notify adjacent communities and the Department of Ecology prior to such alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Insurance Administrator through appropriate notification means, and</li> <li>2) Assure that the flood carrying capacity of the altered or relocated portion of said watercourse is maintained.</li> </ol>	<p style="text-align: center;"><i>Mandatory</i>  (44CFR 60.3(b)(6))  (44CFR 60.3(b)(7))</p> <ol style="list-style-type: none"> <li>1) <b>15.12.120(D)(1) - Please see markups on Snoqualmie Municipal Code.</b></li> <li>2) <b>15.12.120(D)(2)</b></li> </ol>
<p><b>4.3-5 Interpretation of FIRM Boundaries</b></p> <p>Make interpretations where needed, as to exact location of the boundaries of the areas of special flood hazards (e.g. where there appears to be a conflict between a mapped boundary and actual field conditions). The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation. Such appeals shall be granted consistent with the standards of Section 60.6 of the Rules and Regulations of the NFIP.</p>	<p style="text-align: center;"><i>(This section is not required, but if the Local Administrators are performing this task on a regular basis, it should be adopted.)</i>  (44 CFR 59-76)</p> <p><b>15.12.120(E) - Please see markups on Snoqualmie Municipal Code.</b></p>

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<p><b>4.3-6 Review of Building Permits</b></p> <p>Where elevation data is not available, either through the FIS, FIRM, or from another authoritative source (Section 4.3-2), applications for floodplain development shall be reviewed to assure that proposed construction will be <i>reasonably safe from flooding</i>. The test of reasonableness is a local judgment and includes use of historical data, high water marks, photographs of past flooding, etc., where available.</p> <p>(Failure to elevate habitable buildings at least two feet above the highest adjacent grade in these zones may result in higher insurance rates.)</p>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(a)(3))</p> <p><b>15.12.150(F) – Please see markups on Snoqualmie Municipal Code.</b></p>
<p><b>4.3-7 Changes to Special Flood Hazard Area</b></p> <p>1) If a project will alter the BFE or boundaries of the SFHA, then the project proponent shall provide the community with engineering documentation and analysis regarding the proposed change. If the change to the BFE or boundaries of the SFHA would normally require a Letter of Map Change, then the project proponent shall initiate, and receive approval of, a Conditional Letter of Map Revision (CLOMR) prior to approval of the development permit. The project shall be constructed in a manner consistent with the approved CLOMR.</p> <p>2) If a CLOMR application is made, then the project proponent shall also supply the full CLOMR documentation package to the Floodplain Administrator to be attached to the floodplain development permit, including all required property owner notifications.</p>	<p><i>Recommended. However, be aware that 44 CFR 65.3 requires communities to submit new technical information regarding changes affecting flooding conditions. Section 4.3-7 gives a community the authority to require necessary information from project proponents.</i></p> <p><b>FEMA recommends adding this provision to Snoqualmie Municipal Code.</b></p>

<p><b>Section 5.0 – Provisions for Flood Hazard Reduction</b></p>	<p style="text-align: center;"><i>(Section 5.0 is required)</i></p>
<p><b>5.1 General Standards</b></p> <p>In all areas of special flood hazards, the following standards are required:</p>	<p><b>15.12.150 - Please see markups on Snoqualmie Municipal Code.</b></p>
<p><b>5.1-1 Anchoring</b></p> <p>1) All new construction and substantial improvements, including those related to manufactured homes, shall be anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads including the effects of buoyancy.</p>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(a)(b)) (44 CFR 60.3(a)(3)(i)) (44 CFR 60.3(b)(8))</p> <p><i>For more detailed information, refer to guidebook, FEMA-85, “Manufactured Home Installation in Flood Hazard Areas.”</i></p>

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<p>2) All manufactured homes shall be anchored to prevent flotation, collapse, or lateral movement, and shall be installed using methods and practices that minimize flood damage. Anchoring methods may include, but are not limited to, use of over-the-top or frame ties to ground anchors.</p>	<p><b>1) 15.12.150(B)(1) – Please see markups on Snoqualmie Municipal Code.</b>  <b>2) 15.12.150(B)(2) – Please see markups on Snoqualmie Municipal Code.</b></p>
<p><b>5.1-2 Construction Materials and Methods</b></p> <p>1) All new construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage.</p> <p>2) All new construction and substantial improvements shall be constructed using methods and practices that minimize flood damage.</p> <p>3) Electrical, heating, ventilation, plumbing, and air-conditioning equipment and other service facilities shall be designed and/or otherwise elevated or located so as to prevent water from entering or accumulating within the components during conditions of flooding.</p>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(a)(3)(ii-iv))</p> <p><b>1) 15.12.150(C)(1)</b>  <b>2) 15.12.150(C)(2)</b>  <b>3) 15.12.150(C)(3)</b></p>
<p><b>5.1-3 Storage of Materials and Equipment</b></p> <p>1) The storage or processing of materials that could be injurious to human, animal, or plant life if released due to damage from flooding is prohibited in special flood hazard areas.</p> <p>2) Storage of other material or equipment may be allowed if not subject to damage by floods and if firmly anchored to prevent flotation, or if readily removable from the area within the time available after flood warning.</p>	<p style="text-align: center;"><i>(recommended)</i></p> <p><b>FEMA recommends adding these provisions to the Snoqualmie Municipal Code.</b></p>
<p><b>5.1-4 Utilities</b></p> <p>1) All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of floodwaters into the systems;</p> <p>2) Water wells shall be located on high ground that is not in the floodway;*</p> <p>3) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of floodwaters into the systems and discharges from the systems into floodwaters;</p> <p>4) Onsite waste disposal systems shall be located to avoid impairment to them or contamination from them during flooding.</p>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(a)(5)(6))</p> <p><i>*WAC 173-160-171 prohibits new water wells in floodways.</i></p> <p><b>1) 15.12.150(D)(1) – Please see markups on Snoqualmie Municipal Code.</b>  <b>2) 15.12.150 – Please add this to Snoqualmie Municipal Code.</b>  <b>3) 15.12.150(D)(2) – Please see markups on Snoqualmie Municipal Code.</b>  <b>4) 15.12.150(D)(3) – Please see markups on Snoqualmie Municipal Code.</b></p>

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<p><b>5.1-5 Subdivision Proposals and Development</b></p> <p>All subdivisions, as well as new development shall:</p> <ol style="list-style-type: none"> <li>1) Be consistent with the need to minimize flood damage;</li> <li>2) Have public utilities and facilities, such as sewer, gas, electrical, and water systems located and constructed to minimize or eliminate flood damage;</li> <li>3) Have adequate drainage provided to reduce exposure to flood damage.</li> <li>4) Where subdivision proposals and other proposed developments contain greater than 50 lots or 5 acres (whichever is the lesser) base flood elevation data shall be included as part of the application.</li> </ol>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(a)(4) and (b)(3))</p> <p><b>15.12.150(E) – Please see markups on Snoqualmie Municipal Code.</b></p> <ol style="list-style-type: none"> <li>1) <b>15.12.150(E)(1) – Please see markups on Snoqualmie Municipal Code.</b></li> <li>2) <b>15.12.150(E)(2) – Please see markups on Snoqualmie Municipal Code.</b></li> <li>3) <b>15.12.150(E)(3) – Please see markups on Snoqualmie Municipal Code.</b></li> <li>4) <b>15.12.150(E)(4) – Please see markups on Snoqualmie Municipal Code.</b></li> </ol>
<p><b>5.2 Specific Standards</b></p> <p>In all areas of special flood hazards where base flood elevation data has been provided as set forth in Section 3.2, BASIS FOR ESTABLISHING THE AREAS OF SPECIAL FLOOD HAZARD, or Section 4.3-2, USE OF OTHER BASE FLOOD DATA. The following provisions are required:</p>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(c)(1))</p> <p><i>(Additional standards were clarified in FEMA Technical Bulletin 11-01 to allow below-grade crawlspace construction for buildings located in the special flood hazard areas. However, the standards in 11-01 must be specifically adopted, and adopting them can result in a 20% increase in flood insurance premiums.)</i></p> <p><b>15.12.160 – Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>Please note that Crawlspace construction is prohibited unless the provisions of TB 11-01 had been adopted into Snoqualmie Municipal Code.</b></p>
<p><b>5.2-1 Residential Construction</b></p> <ol style="list-style-type: none"> <li>1) In AE and A1-30 zones or other A zoned areas where the BFE has been determined or can be reasonably obtained, new construction and substantial improvement of any residential structure shall have the lowest floor, including basement, elevated one foot or more above the BFE. Mechanical equipment and utilities shall be waterproof or elevated least one foot above the BFE.</li> <li>2) New construction and substantial improvement of any residential structure in an AO zone shall meet the requirements in Appendix A.</li> <li>3) New construction and substantial improvement of any residential structure in an Unnumbered A zone for which a BFE is not available and cannot be reasonably obtained shall be reasonably safe from flooding, but in all cases the lowest floor shall be at least two feet above the Highest Adjacent Grade.</li> <li>4) New construction and substantial improvement of any residential structure in a V, V1-30, or VE</li> </ol>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(c)(2) and (5)) (44 CFR 60.3(c)(7)) (44 CFR 60.3(b)(2)) (44 CFR 60.3(e)) (44 CFR 60.3(c)(5))</p> <ol style="list-style-type: none"> <li>1) <b>15.12.160(A)(1) – Please see markups on Snoqualmie Municipal Code.</b></li> <li>2) <b>Not required as Snoqualmie does not have mapped AO zones.</b></li> <li>3) <b>Not required as Snoqualmie does not have mapped unnumbered A zones.</b></li> <li>4) <b>Not required as Snoqualmie does not have mapped coastal zones.</b></li> <li>5) <b>15.12.160(A)(2) – Please see markups on Snoqualmie Municipal Code.</b></li> </ol>

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<p>zone shall meet the requirements in Appendix B.</p> <p>5) Fully enclosed areas below the lowest floor that are subject to flooding are prohibited, or shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs must meet or exceed the following minimum criteria:</p> <ol style="list-style-type: none"> <li>a) Have a minimum of two openings with a total net area of not less than one square inch for every square foot of enclosed area subject to flooding.</li> <li>b) The bottom of all openings shall be no higher than one foot above grade.</li> <li>c) Openings may be equipped with screens, louvers, valves, or other coverings or devices provided that they permit the automatic entry and exit of floodwater.</li> <li>d) A garage attached to a residential structure, constructed with the garage floor slab below the BFE, must be designed to allow for the automatic entry and exit of floodwaters.</li> </ol> <p>Alternatively, a registered engineer or architect may design and certify engineered openings.</p>	<p style="text-align: center;"><b>Place in Snoqualmie Municipal Code.</b></p>
<p><b>5.2-2 Nonresidential Construction</b></p> <p>New construction and substantial improvement of any commercial, industrial or other nonresidential structure shall meet the requirements of subsection 1 or 2, below.</p> <p>1) New construction and substantial improvement of any commercial, industrial or other nonresidential structure shall meet all of the following requirements:</p> <ol style="list-style-type: none"> <li>a) In AE and A1-30 zones or other A zoned areas where the BFE has been determined or can be reasonably obtained: New construction and substantial improvement of any commercial, industrial, or other nonresidential structure shall have the lowest floor, including basement, elevated one foot or more above the BFE, or elevated as required by ASCE 24, whichever is greater. Mechanical equipment and utilities shall be waterproofed or elevated least one foot above the BFE, or as required by ASCE 24, whichever is greater.</li> <li>b) If located in an AO zone, the structure shall meet the requirements in Appendix A.</li> <li>c) If located in an Unnumbered A zone for which a BFE is not available and cannot be reasonably obtained, the structure shall be reasonably safe from flooding, but in all cases</li> </ol>	<p style="text-align: center;"><i>Mandatory (44 CFR 60.3(c)(3) and (4))</i></p> <p><b>15.12.160(B) – Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>1) 15.12.160(B)(1) – Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>1)a) 15.12.160(B)(1)(a) – Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>1)b) Not required as Snoqualmie does not have mapped AO zones.</b></p> <p><b>1)c) Not required as Snoqualmie does not have mapped Unnumbered A zones.</b></p> <p><b>1)d) Not required as Snoqualmie does not have mapped coastal zones.</b></p> <p><b>1)e) Please see markups on Snoqualmie Municipal Code.</b></p>

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<p>the lowest floor shall be at least two feet above the Highest Adjacent Grade.</p> <p>d) If located in a V, V1-30, or VE zone, the structure shall meet the requirements in Appendix B.</p> <p>e) Fully enclosed areas below the lowest floor that are subject to flooding are prohibited, or shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or must meet or exceed the following minimum criteria:</p> <ul style="list-style-type: none"> <li>i) Have a minimum of two openings with a total net area of not less than one square inch for every square foot of enclosed area subject to flooding.</li> <li>ii) The bottom of all openings shall be no higher than one foot above grade.</li> <li>iii) Openings may be equipped with screens, louvers, valves, or other coverings or devices provided that they permit the automatic entry and exit of floodwater.</li> </ul> <p>Alternatively, a registered engineer or architect may design and certify engineered openings.</p> <p>2) If the requirements of subsection 1 are not met, then new construction and substantial improvement of any commercial, industrial or other nonresidential structure shall meet all of the following requirements:</p> <ul style="list-style-type: none"> <li>a) Be dry flood proofed so that below one foot or more above the base flood level the structure is watertight with walls substantially impermeable to the passage of water or dry flood proofed to the elevation required by ASCE 24, whichever is greater;</li> <li>b) Have structural components capable of resisting hydrostatic and hydrodynamic loads and effects of buoyancy;</li> <li>c) Be certified by a registered professional engineer or architect that the design and methods of construction are in accordance with accepted standards of practice for meeting provisions of this subsection based on their development and/or review of the structural design, specifications and plans. Such certifications shall be provided to the official as set forth in Section 4.3-3(2);</li> <li>d) Nonresidential structures that are elevated, not flood proofed, must meet the same standards for space below the lowest floor as described in 5.2-1(2);</li> </ul> <p>(Applicants who are flood proofing nonresidential buildings shall be notified that</p>	<p><b>2) Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>2)a) Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>2)b) Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>2)c) Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>2)d) Please see markups on Snoqualmie Municipal Code.</b></p> <p><b>15.12.160(B)(3)</b></p>
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<p>flood insurance premiums will be based on rates that are one foot below the flood proofed level (e.g. a building flood proofed to the base flood level will be rated as one foot below). Flood proofing the building an additional foot will reduce insurance premiums.)</p>	
<p><b>5.2-3 Manufactured Homes</b></p> <p>1) All manufactured homes to be placed or substantially improved on sites shall be elevated on a permanent foundation such that the lowest floor of the manufactured home is elevated one foot or more above the base flood elevation and be securely anchored to an adequately anchored foundation system to resist flotation, collapse and lateral movement*. This applies to manufactured homes:</p> <ul style="list-style-type: none"> <li>a) Outside of a manufactured home park or subdivision,</li> <li>b) In a new manufactured home park or subdivision,</li> <li>c) In an expansion to an existing manufactured home park or subdivision, or</li> <li>d) In an existing manufactured home park or subdivision on a site which a manufactured home has incurred “substantial damage” as the result of a flood; and</li> </ul> <p>2) Manufactured homes to be placed or substantially improved on sites in an existing manufactured home park or subdivision that are not subject to the above manufactured home provisions be elevated so that either:</p> <ul style="list-style-type: none"> <li>a) The lowest floor of the manufactured home is elevated one foot or more*</li> <li>b) The manufactured home chassis is supported by reinforced piers or other foundation elements of at least equivalent strength that are no less than 36 inches in height above grade and be securely anchored to an adequately anchored foundation system to resist flotation, collapse, and lateral movement.</li> </ul>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(c)(6)(12))</p> <p>(* If this phrase is applied to all manufactured homes in the floodplain, then the remaining verbiage is not necessary to adopt.)</p> <p><b>1) 15.12.160(C)(1) – Please see the markups on the Snoqualmie Municipal Code.</b></p> <p><b>Not required as first phrase is adopted.</b></p> <p><b>Not required as first phrase is adopted.</b></p>
<p><b>5.2-4 Recreational Vehicles</b></p> <p>Recreational vehicles placed on sites are required to either:</p> <ul style="list-style-type: none"> <li>1) Be on the site for fewer than 180 days, or</li> <li>2) Be fully licensed and ready for highway use, on wheels or jacking system, attached to the site only by quick disconnect type utilities and security devices, and have no permanently attached additions; or</li> <li>3) Meet the requirements of 5.2-3, above.</li> </ul>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(c)(14))</p> <p><b>15.12.160(D) – Please see markups on Snoqualmie Municipal ordinance.</b></p>

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<p><b>5.2-5 Enclosed Area Below the Lowest Floor</b></p> <p>If buildings or manufactured homes are constructed or substantially improved with fully enclosed areas below the lowest floor, the areas shall be used solely for parking of vehicles, building access, or storage.</p>	<p style="text-align: center;"><i>(44 CFR 60.3(c)(5))</i></p> <p><b>Please add this provision to Snoqualmie Municipal Code.</b></p>
<p><b>5.2-6 Appurtenant Structures (Detached Garages &amp; Small Storage Structures)</b></p> <p>For A Zones (A, AE, A1-30, AH, AO):</p> <ol style="list-style-type: none"> <li>1) Appurtenant structures used solely for parking of vehicles or limited storage may be constructed such that the floor is below the BFE, provided the structure is designed and constructed in accordance with the following requirements: <ol style="list-style-type: none"> <li>a) Use of the appurtenant structure must be limited to parking of vehicles or limited storage;</li> <li>b) The portions of the appurtenant structure located below the BFE must be built using flood resistant materials;</li> <li>c) The appurtenant structure must be adequately anchored to prevent flotation, collapse, and lateral movement;</li> <li>d) Any machinery or equipment servicing the appurtenant structure must be elevated or flood proofed to or above the BFE;</li> <li>e) The appurtenant structure must comply with floodway encroachment provisions in Section 5.4-1;</li> <li>f) The appurtenant structure must be designed to allow for the automatic entry and exit of floodwaters in accordance with Section 5.2-1(5).</li> <li>g) The structure shall have low damage potential, and</li> <li>h) If the structure is converted to another use, it must be brought into full compliance with the standards governing such use.</li> <li>i) The structure shall not be used for human habitation.</li> </ol> </li> <li>2) Detached garages, storage structures, and other appurtenant structures not meeting the above standards must be constructed in accordance with all applicable standards in Section 5.2-1.</li> <li>3) Upon completion of the structure, certification that the requirement of this section have been satisfied shall be provided to the Floodplain Administrator for verification.</li> </ol>	<p style="text-align: center;"><i>Recommended</i></p> <p><b>FEMA recommends that this provision is added to Snoqualmie Municipal Code.</b></p>

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<p><b>5.3 AE and A1-30 Zones with Base Flood Elevations but No Floodways</b></p> <p>In areas with BFEs (when a regulatory floodway has not been designated), no new construction, substantial improvements, or other development (including fill) shall be permitted within zones A1-30 and AE on the community's FIRM, unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one foot at any point within the community.</p>	<p style="text-align: center;"><i>Mandatory</i> (44 CFR 60.3(c)(10))</p> <p><b>Add this provision to the Snoqualmie Municipal Code.</b></p>
<p><b>5.4 Floodways</b></p> <p>Located within areas of special flood hazard established in Section 3.2 are areas designated as floodways. Since the floodway is an extremely hazardous area due to the velocity of floodwaters that can carry debris, and increase erosion potential, the following provisions apply:</p>	<p style="text-align: center;"><i>(Note the more restrictive language for floodway development per RCW 86.16)</i></p> <p><b>15.12.170 – Please see markups on Snoqualmie Municipal Code.</b></p>
<p><b>5.4-1 No Rise Standard</b></p> <p>Prohibit encroachments, including fill, new construction, substantial improvements, and other development, unless certification by a registered professional engineer is provided demonstrating through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in flood levels during the occurrence of the base flood discharge.</p>	<p style="text-align: center;"><i>(44 CFR 60.3(d)(3))</i></p> <p><b>15.12.170(A) - Please see markups on Snoqualmie Municipal Code.</b></p>
<p><b>5.4-2 Residential Construction in Floodways</b></p> <p>Construction or reconstruction of residential structures is prohibited within designated floodways*, except for (i) repairs, reconstruction, or improvements to a structure which do not increase the ground floor area; and (ii) repairs, reconstruction or improvements to a structure, the cost of which does not exceed 50 percent of the market value of the structure either, (A) before the repair, or reconstruction is started, or (B) if the structure has been damaged, and is being restored, before the damage occurred. Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by the local code enforcement official and which are</p>	<p style="text-align: center;"><i>Mandatory</i> (RCW 86.16.041) <i>However, subsections 1 and 2 can be eliminated at local option.</i></p> <p><b>15.12.170(B)</b></p>

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the minimum necessary to assure safe living conditions, or to structures identified as historic places, may be excluded in the 50 percent.

- 1) Replacement of Farmhouses in Floodway  
Repairs, reconstruction, replacement, or improvements to existing farmhouse structures located in designated floodways and that are located on lands designated as agricultural lands of long-term commercial significance under RCW 36.70A.170 may be permitted subject to the following:
  - a) The new farmhouse is a replacement for an existing farmhouse on the same farm site;
  - b) There is no potential building site for a replacement farmhouse on the same farm outside the designated floodway;
  - c) Repairs, reconstruction, or improvements to a farmhouse shall not increase the total square footage of encroachment of the existing farmhouse;
  - d) A replacement farmhouse shall not exceed the total square footage of encroachment of the farmhouse it is replacing;
  - e) A farmhouse being replaced shall be removed, in its entirety, including foundation, from the floodway within ninety days after occupancy of a new farmhouse;
  - f) For substantial improvements and replacement farmhouses, the elevation of the lowest floor of the improvement and farmhouse respectively, including basement, is a minimum of one foot higher than the BFE;
  - g) New and replacement water supply systems are designed to eliminate or minimize infiltration of floodwaters into the system;
  - h) New and replacement sanitary sewerage systems are designed and located to eliminate or minimize infiltration of floodwater into the system and discharge from the system into the floodwaters; and
  - i) All other utilities and connections to public utilities are designed, constructed, and located to eliminate or minimize flood damage.
- 2) Substantially Damaged Residences in Floodway
  - a) For all substantially damaged residential structures, other than farmhouses, located in a designated floodway, the Floodplain Administrator may make a written request that the Department of Ecology assess the risk of harm to life and property posed by the specific conditions of the floodway. Based on analysis of depth, velocity, flood-related

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erosion, channel migration, debris load potential, and flood warning capability, the Department of Ecology may exercise best professional judgment in recommending to the local permitting authority repair, replacement, or relocation of a substantially damaged structure consistent with WAC 173-158-076. The property owner shall be responsible for submitting to the local government and the Department of Ecology any information necessary to complete the assessment. Without a favorable recommendation from the department for the repair or replacement of a substantially damaged residential structure located in the regulatory floodway, no repair or replacement is allowed per WAC 173-158-070(1).

- b) Before the repair, replacement, or reconstruction is started, all requirements of the NFIP, the state requirements adopted pursuant to 86.16 RCW, and all applicable local regulations must be satisfied. In addition, the following conditions must be met:
  - i) There is no potential safe building location for the replacement residential structure on the same property outside the regulatory floodway.
  - ii) A replacement residential structure is a residential structure built as a substitute for a legally existing residential structure of equivalent use and size.
  - iii) Repairs, reconstruction, or replacement of a residential structure shall not increase the total square footage of floodway encroachment.
  - iv) The elevation of the lowest floor of the substantially damaged or replacement residential structure is a minimum of one foot higher than the BFE.
  - v) New and replacement water supply systems are designed to eliminate or minimize infiltration of floodwater into the system.
  - vi) New and replacement sanitary sewerage systems are designed and located to eliminate or minimize infiltration of floodwater into the system and discharge from the system into the floodwaters.
  - vii) All other utilities and connections to public utilities are designed, constructed, and located to eliminate or minimize flood damage.

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<p><b>5.4-3 All Other Building Standards Apply in the Floodway</b></p> <p>If Section 5.4-1 is satisfied or construction is allowed pursuant to Section 5.4-2, all new construction and substantial improvements shall comply with all applicable flood hazard reduction provisions of Section 5.0, Provision For Flood Hazard Reduction.</p>	<p><i>Mandatory (44 CFR 60.3(d)(1-4)</i></p> <p><b>Please add to the Snoqualmie Municipal Code or provide evidence of where it is located.</b></p>
<p><b>5.5 General Requirements for Other Development</b></p> <p>All development, including manmade changes to improved or unimproved real estate for which specific provisions are not specified in this ordinance or the state building codes with adopted amendments and any {community name} amendments, shall:</p> <ol style="list-style-type: none"> <li>1) Be located and constructed to minimize flood damage;</li> <li>2) Meet the encroachment limitations of this ordinance if located in a regulatory floodway;</li> <li>3) Be anchored to prevent flotation, collapse, or lateral movement resulting from hydrostatic loads, including the effects of buoyancy, during conditions of the design flood;</li> <li>4) Be constructed of flood damage-resistant materials;</li> <li>5) Meet the flood opening requirements of Section 5.2-1(5), and</li> <li>6) Have mechanical, plumbing, and electrical systems above the design flood elevation or meet the requirements of ASCE 24, except that minimum electric service required to address life safety and electric code requirements is permitted below the design flood elevation provided it conforms to the provisions of the electrical part of building code for wet locations.</li> </ol>	<p><i>(Optional Provision)</i></p> <p><b>FEMA recommends adding this provision to Snoqualmie Municipal Code.</b></p>

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<p><b>5.6 Critical Facility</b></p> <p>Construction of new critical facilities shall be, to the extent possible, located outside the limits of the SFHA (100-year floodplain). Construction of new critical facilities shall be permissible within the SFHA if no feasible alternative site is available. Critical facilities constructed within the SFHA shall have the lowest floor elevated three feet above BFE or to the height of the 500-year flood, whichever is higher. Access to and from the critical facility should also be protected to the height utilized above. Flood proofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters. Access routes elevated to or above the level of the BFE shall be provided to all critical facilities to the extent possible.</p>	<p style="text-align: center;"><i>(Optional Provision)</i></p> <p><b>15.12.160(E) – Please see markups on Snoqualmie Municipal Ordinance.</b></p>
<p><b>5.7 Livestock Sanctuary Areas</b></p> <p>Elevated areas for the for the purpose of creating a flood sanctuary for livestock are allowed on farm units where livestock is allowed. Livestock flood sanctuaries shall be sized appropriately for the expected number of livestock and be elevated sufficiently to protect livestock. Proposals for livestock flood sanctuaries shall meet all procedural and substantive requirements of this chapter.</p> <p>Note: To be “elevated sufficiently to protect livestock” typically means to be elevated at least one foot above the BFE.</p>	<p>Required by RCW 86.16.190. This section should be included by all counties. A city that does not allow livestock can forgo this section. While state law requires that local governments make provision for critter pads, it is extremely important to note that RCW 86.16.190 does not relax NFIP standards, including the no rise standard in floodways, in any way.</p>

<p><b>Section 6.0 - Variances</b></p>	<p style="text-align: center;"><i>Recommended</i></p>
<p>The variance criteria set forth in this section of the ordinance are based on the general principle of zoning law that variances pertain to a piece of property and are not personal in nature. A variance may be granted for a parcel of property with physical characteristics so unusual that complying with the requirements of this ordinance would create an exceptional hardship to the applicant or the surrounding property owners. The characteristics must be unique to the property and not be shared by adjacent parcels. The unique characteristic must pertain to the land itself, not to the structure, its inhabitants, or the property owners.</p>	<p><b>FEMA recommends placing this language in the Snoqualmie Municipal Code.</b></p>

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<p>It is the duty of the <b>{governing body}</b> to help protect its citizens from flooding. This need is so compelling and the implications of the cost of insuring a structure built below the Base Flood Elevation are so serious that variances from the flood elevation or from other requirements in the flood ordinance are quite rare. The long-term goal of preventing and reducing flood loss and damage can only be met if variances are strictly limited. Therefore, the variance guidelines provided in this ordinance are more detailed and contain multiple provisions that must be met before a variance can be properly granted. The criteria are designed to screen out those situations in which alternatives other than a variance are more appropriate.</p>	
<p><b>6.1 Requirements for Variances</b></p> <ol style="list-style-type: none"> <li>1) Variances shall only be issued: <ol style="list-style-type: none"> <li>a) Upon a determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances;</li> <li>b) For the repair, rehabilitation, or restoration of historic structures upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as a historic structure and the variance is the minimum necessary to preserve the historic character and design of the structure;</li> <li>c) Upon a determination that the variance is the minimum necessary, considering the flood hazard, to afford relief;</li> <li>d) Upon a showing of good and sufficient cause;</li> <li>e) Upon a determination that failure to grant the variance would result in exceptional hardship to the applicant;</li> <li>f) Upon a showing that the use cannot perform its intended purpose unless it is located or carried out in close proximity to water. This includes only facilities defined in Section 2.0 <b>{or the numbering system used by the community}</b> of this ordinance in the definition of "Functionally Dependent Use."</li> </ol> </li> <li>2) Variances shall not be issued within any floodway if any increase in flood levels during the base flood discharge would result.</li> <li>3) Generally, variances may be issued for new construction and substantial improvements to</li> </ol>	<p><i>Recommended. However, any variance provisions need to meet the standards in 44 CFR 60.6</i></p> <p><b>15.12.140 - Please see what FEMA recommends in the Snoqualmie Municipal Code.</b></p>

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<p>be erected on a lot of one-half acre or less in size contiguous to and surrounded by lots with existing structures constructed below the BFE, provided the procedures of Sections 4.0 and 5.0 <b>{for the numbering system used by the community}</b> of this ordinance have been fully considered. As the lot size increases beyond one-half acre, the technical justification required for issuing the variance increases.</p>	
<p><b>6.2 Variance Criteria</b></p> <p>1) In considering variance applications, the <b>{Governing Body}</b> shall consider all technical evaluations, all relevant factors, all standards specified in other sections of this ordinance, and:</p> <p>a) The danger that materials may be swept onto other lands to the injury of others;</p> <p>b) The danger to life and property due to flooding or erosion damage;</p> <p>c) The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;</p> <p>d) The importance of the services provided by the proposed facility to the community;</p> <p>e) The necessity to the facility of a waterfront location, where applicable;</p> <p>f) The availability of alternative locations for the proposed use, which are not subject to flooding or erosion damage;</p> <p>g) The compatibility of the proposed use with existing and anticipated development;</p> <p>h) The relationship of the proposed use to the comprehensive plan and floodplain management program for that area;</p> <p>i) The safety of access to the property in time of flood for ordinary and emergency vehicles;</p> <p>j) The expected heights, velocity, duration, rate of rise, and sediment transport of the floodwaters expected at the site; and,</p> <p>k) The costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities, such as sewer, gas, electrical, water system, and streets and bridges.</p>	<p><i>Recommended. However, any variance provisions need to meet the standards in 44 CFR 60.6</i></p> <p>a) <b>15.12.130(B)(1)</b>  b) <b>15.12.130(B)(2)</b>  c) <b>15.12.130(B)(3)</b>  d) <b>15.12.130(B)(4)</b>  e) <b>15.12.130(B)(5)</b>  f) <b>15.12.130(B)(6) - Please see markups on Snoqualmie Municipal Code.</b>  g) <b>15.12.130(B)(7)</b>  h) <b>15.12.130(B)(8)</b>  i) <b>15.12.130(B)(9)</b>  j) <b>15.12.130(B)(10) - Please see markups on Snoqualmie Municipal Code.</b>  k) <b>15.12.130(B)(11)</b></p>
<p><b>6.3 Additional Requirements for the Issuance of a Variance</b></p> <p>1) Any applicant to whom a variance is granted shall be given written notice over the signature of a community official that:</p> <p>a. The issuance of a variance to construct a structure below the BFE will result in increased premium rates for flood insurance</p>	<p><i>Recommended. However, any variance provisions need to meet the standards in 44 CFR 60.6</i></p> <p><b>15.12.140 - Please see what FEMA recommends in the Snoqualmie Municipal Code.</b></p>

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<p>up to amounts as high as \$25 for \$100 of insurance coverage, and</p> <p>b. Such construction below the BFE increases risks to life and property.</p> <p>2) The Floodplain Administrator shall maintain a record of all variance actions, including justification for their issuance.</p> <p>3) The Floodplain Administrator shall condition the variance as needed to ensure that the requirements and criteria of this chapter are met.</p> <p>Variations as interpreted in the NFIP are based on the general zoning law principle that they pertain to a physical piece of property; they are not personal in nature and do not pertain to the structure, its inhabitants, economic or financial circumstances. They primarily address small lots in densely populated residential neighborhoods. As such, variations from flood elevations should be quite rare.</p>	
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